

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY

NATURAL MINOR (STATE ONLY) OPERATING PERMIT APPLICATION

Section 1: General Information

1.1 Application Type

Type of permit for which application is made:

☐

Initial

☒

Renewal

☐

Modification

FOR OFFICIAL USE ONLY

State Only OP #: 36-3033

Reviewed By: _____

Date: _____

Comments: _____

*fee received*97 NOV 12 PM 1:35
AIR QUALITYRECEIVED - DEP
ENVIRONMENTAL REGION

1.2 Plant Information

L.L.C.

a) Firm Name: Bulova Technologies b) Federal Tax ID: 23-2793455
c) Plant Name: Bulova Technologies L.L.C.
d) Permit Contact: Robin E. Thomas e) Telephone: (717) 299-2581
f) SIC Code: 3489 g) Description of SIC Code: Ordnance and accessories, n.e.c.
h) County: Lancaster i) Municipality: Lancaster

1.3 Mailing Information

Name: Robin E. Thomas Title: Director, Environmental & Chemical Services
Address: 101 North Queen Street, Lancaster, PA 17604
Telephone Number: (717) 299-2581 extension 2607

1.4 Certification of Truth, Accuracy and Completeness

This certification must be signed by a responsible official. Applications without a signed certification will be returned as incomplete.

* Subject to the penalties of Title 18 Pa. C.S. Section 4904 and 35 P.S. Section 4009 (b) (2), I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.

(Signed) _____

Date 10/31/97Name (Typed) Craig SchneeTitle: Vice President, Administration

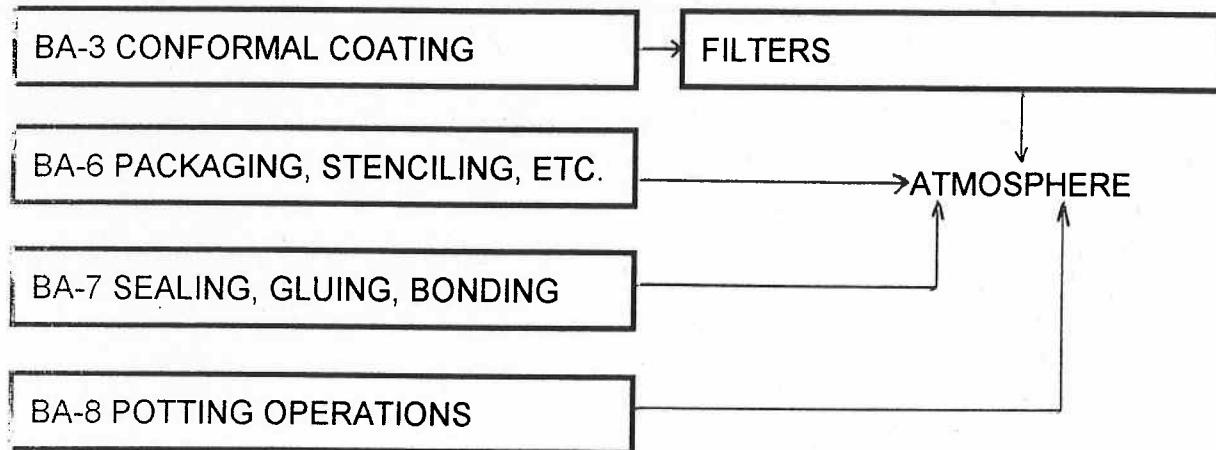
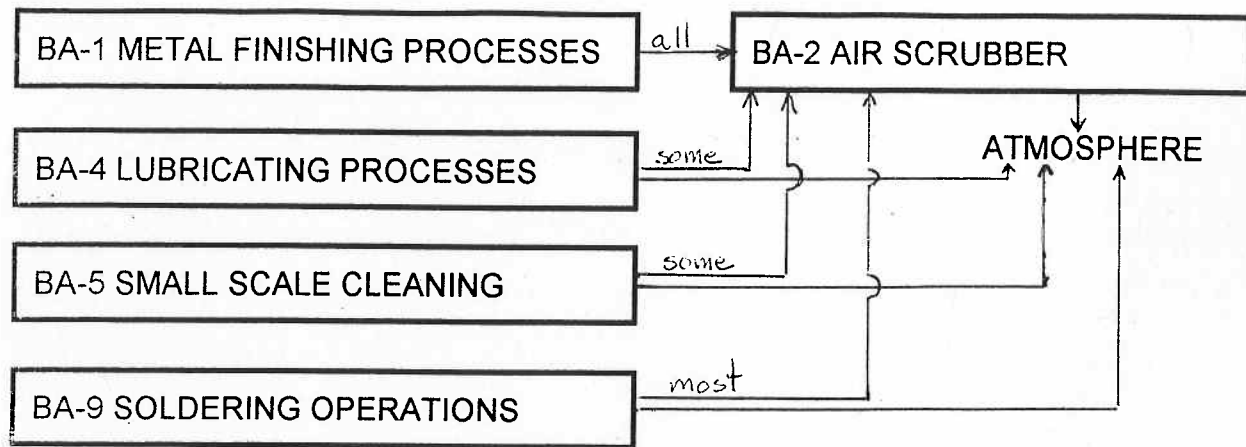
2.1 Site Inventory

[illegible]

Insignificant Activities:

Bulova Technologies believes that the following activities produce very minor amounts of air emissions and should be considered as insignificant activities:

1. Chemistry Lab analyses - There are four fume hoods which are used for occasional analyses. Some acid fumes are produced, but the exhaust is tied in to the air scrubber.
2. Cafeteria - The company cafeteria has a grill, pizza oven, and french fryer, all of which are electrically powered. The cafeteria is open only for breakfast and lunch.
3. Bench grinders and belt sanders - There are about six grinding wheels and belt sanders in various locations for occasional maintenance work in the facility. They are not used for production operations and generate minor amounts of dust.
4. Flammable solvents storage rooms (2) - Containers of solvents in 5 gallon cans to 55 gallon drums are kept in these two specially designed rooms. Smaller safety cans are filled from the containers in these rooms from time to time. Any vapors that escape during filling of the safety cans are exhausted through the air scrubber.
5. Cooling towers - There are two cooling towers on the roof which are used to cool the factory air conditioning units. The only materials in the towers are water and minor amounts of commercial biocide and corrosion inhibitor which remain in the water.
6. PC board trimmer - This device cuts printed circuit boards from the panels. It is located in the second floor clean room and has its own dust collection system built in. There are virtually no emissions from this machine.



Section 3: Source Information

Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-1 b) Company Designation: Metal Finishing Processes

c) Source Type (check one): ☐ Combustion ☐ Incinerator ☒ Process

d) Plan Approval or Operating Permit Number: Permit Number 36-318-102

e) Manufacturer: various f) Model Number: N/A

g) Unit Description: Finishing Department and Chemistry Lab metal finishing processes controlled by scrubber.

h) Rated Heat Input/Thruput: N/A i) Installation Date: 11/16/81

j) Type of Fuel: N/A k) Annual Fuel Usage: N/A

l) Sulfur Content of Fuel (%): N/A

Incinerators: Complete the following additional information

a) Incinerator Capacity: N/A Lbs/Hr b) Waste Type: _____

c) Primary Burner Heat Input: _____ Units: _____

d) Secondary Burner Heat Input: _____ Units: _____

e) Incinerator Class: _____

3.2 Actual Emission Estimates:

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
hydrochloric acid vapors	0.0265	0.0276
nitric acid vapors	0.00086	0.00089
sulfuric acid vapors	0.0003	0.00035

Section 3: Source Information

Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-3 b) Company Designation: Conformal Coating Processes

c) Source Type (check one): ☐ Combustion ☐ Incinerator ☒ Process

d) Plan Approval or Operating Permit Number: N/A

e) Manufacturer: Binks and others f) Model Number: N/A

g) Unit Description: Hand spraying conformal coatings on circuit boards in first floor paint booth

h) Rated Heat Input/Thruput: N/A i) Installation Date: October 1981

j) Type of Fuel: N/A k) Annual Fuel Usage: N/A

l) Sulfur Content of Fuel (%): N/A

Incinerators: Complete the following additional information

a) Incinerator Capacity: N/A Lbs/Hr. b) Waste Type: _____

c) Primary Burner Heat Input: _____ Units: _____

d) Secondary Burner Heat Input: _____ Units: _____

e) Incinerator Class: _____

3.2 Actual Emission Estimates:

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
xylene	0.092	0.095
toluene	0.057	0.059
methyl ethyl ketone	0.018	0.018
ethyl benzene	0.016	0.017
polypropylene glycol methyl ether acetate	0.0036	0.0038

Section 3: Source Information

Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-4 b) Company Designation: Lubricating Processes

c) Source Type (check one): ☐ Combustion ☐ Incinerator ☒ Process

d) Plan Approval or Operating Permit Number: N/A

e) Manufacturer: Ronci, Blue M and others f) Model Number: various

g) Unit Description: First floor dry film lubricating processes and assembly line lubricating processes

h) Rated Heat Input/Thruput: N/A i) Installation Date: October 1981

j) Type of Fuel: N/A k) Annual Fuel Usage: N/A

l) Sulfur Content of Fuel (%): N/A

Incinerators: Complete the following additional information

a) Incinerator Capacity: N/A Lbs/Hr b) Waste Type: _____

c) Primary Burner Heat Input: _____ Units: _____

d) Secondary Burner Heat Input: _____ Units: _____

e) Incinerator Class: _____

3.2 Actual Emission Estimates:

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
isopropyl alcohol	0.246	0.256
ethyl acetate	0.215	0.224
methyl ethyl ketone	0.195	0.203
heptane	0.0089	0.0093
ethyl alcohol	0.0056	0.0058
butyl acetate	0.0041	0.0043

Section 3: Source Information

Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-5 b) Company Designation: Small Scale Hand Cleaning Operations

c) Source Type (check one): ☐ Combustion ☐ Incinerator ☒ Process

d) Plan Approval or Operating Permit Number: N/A

e) Manufacturer: Crest, Branson, Blue M, New Holland f) Model Number: various

g) Unit Description: Ultrasonic and hand cleaning in Finishing Dept., Chem. Lab., and assembly lines.

h) Rated Heat Input/Thruput: N/A i) Installation Date: October, 1981

j) Type of Fuel: N/A k) Annual Fuel Usage: N/A

l) Sulfur Content of Fuel (%): N/A

Incinerators: Complete the following additional information

a) Incinerator Capacity: N/A Lbs/Hr b) Waste Type: _____

c) Primary Burner Heat Input: _____ Units: _____

d) Secondary Burner Heat Input: _____ Units: _____

e) Incinerator Class: _____

3.2 Actual Emission Estimates:

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
ethyl alcohol	0.155	0.162
hexane	0.115	0.120
isopropyl alcohol	0.038	0.039
methanol	0.0025	0.0026

Section 3: Source Information

Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-6 b) Company Designation: Packaging, Stenciling, and Marking Processes

c) Source Type (check one): ☐ Combustion ☐ Incinerator ☒ Process

d) Plan Approval or Operating Permit Number: N/A

e) Manufacturer: N/A f) Model Number: N/A

g) Unit Description: Assembly line packaging and marking operations using stencil inks, etc

h) Rated Heat Input/Thruput: N/A i) Installation Date: October 1981

j) Type of Fuel: N/A k) Annual Fuel Usage: N/A

l) Sulfur Content of Fuel (%): N/A

Incinerators: Complete the following additional information

a) Incinerator Capacity: N/A Lbs/Hr b) Waste Type: _____

c) Primary Burner Heat Input: _____ Units: _____

d) Secondary Burner Heat Input: _____ Units: _____

e) Incinerator Class: _____

3.2 Actual Emission Estimates:

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
misc. VOCs	0.012	0.0125

Section 3: Source Information

Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-7 b) Company Designation: Sealing, Gluing, and Bonding Processes

c) Source Type (check one): ☐ Combustion ☐ Incinerator ☒ Process

d) Plan Approval or Operating Permit Number: N/A

e) Manufacturer: various f) Model Number: N/A

g) Unit Description: Various gluing, sealing, bonding, and marking operations on assembly lines.

h) Rated Heat Input/Thruput: N/A i) Installation Date: October 1981

j) Type of Fuel: N/A k) Annual Fuel Usage: N/A

l) Sulfur Content of Fuel (%): N/A

Incinerators: Complete the following additional information

a) Incinerator Capacity: N/A Lbs/Hr b) Waste Type:

c) Primary Burner Heat Input: Units:

d) Secondary Burner Heat Input: Units:

e) Incinerator Class:

3.2 Actual Emission Estimates:

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
methanol	< 0.005	< 0.005
misc. VOCs	0.0096	0.010

Section 3: Source Information

Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-8 b) Company Designation: Potting Operations

c) Source Type (check one): ☐ Combustion ☐ Incinerator ☒ Process

d) Plan Approval or Operating Permit Number: N/A

e) Manufacturer: Blue M, Gruenberg f) Model Number: various

g) Unit Description: Potting / encapsulating processes on assembly lines

h) Rated Heat Input/Thruput: N/A i) Installation Date: October 1981

j) Type of Fuel: N/A k) Annual Fuel Usage: N/A

l) Sulfur Content of Fuel (%): N/A

Incinerators: Complete the following additional information

a) Incinerator Capacity: N/A Lbs/Hr b) Waste Type: _____

c) Primary Burner Heat Input: _____ Units: _____

d) Secondary Burner Heat Input: _____ Units: _____

e) Incinerator Class: _____

3.2 Actual Emission Estimates:

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
misc. VOCs	< 0.0096	< 0.010

Section 3: Source Information

Complete this section for each source at this site.

3.1 General Source Information

a) Unit ID Number: BA-9 b) Company Designation: Soldering Operations

c) Source Type (check one): ☐ Combustion ☐ Incinerator ☒ Process

d) Plan Approval or Operating Permit Number: N/A

e) Manufacturer: various f) Model Number: various

g) Unit Description: Second floor clean room soldering and assembly line hand solder stations.

h) Rated Heat Input/Thruput: N/A i) Installation Date: October 1981

j) Type of Fuel: N/A k) Annual Fuel Usage: N/A

l) Sulfur Content of Fuel (%): N/A

Incinerators: Complete the following additional information

a) Incinerator Capacity: N/A Lbs/Hr b) Waste Type: _____

c) Primary Burner Heat Input: _____ Units: _____

d) Secondary Burner Heat Input: _____ Units: _____

e) Incinerator Class: _____

3.2 Actual Emission Estimates:

Pollutants	Quantity (lb/hr)	Quantity (tons per year)
possibly some trace amounts of lead	< 0.024	< 0.025

4.1 General Control Device Information

k) Control Efficiency Estimates for this control device:

[illegible]